

1/9/1
DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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16764651

Basic Patent (No,Kind,Date): WO 200122297 A1 20010329 <No. of Patents:-
001>

PATENT FAMILY:

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 200122297 A1 20010329

DIGITAL MEDIA FRAME (English)

Patent Assignee: WEAWE INNOVATIONS INC (US)

Author (Inventor): BANDARU M KRISHNA; SIEGEL ROBERT E

Priority (No,Kind,Date): US 405523 A 19990923

Applic (No,Kind,Date): WO 2000US26108 A 20000922

Designated States: (National) AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB;
GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC;
LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL;
PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; UZ;
VN; YU; ZA; ZW (Regional) GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; CH; CY; DE; DK;
ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI;
CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

Filing Details: WO 100000 With international search report

IPC: * G06F-017/30; G06F-013/14

Language of Document: English

PATENT
FAMILY
SEARCH

APR 25 2001

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 200122297 P 19990923 WO AA PRIORITY (PATENT)
US 405523 A 19990923

WO 200122297 P 20000922 WO AE APPLICATION DATA (APPL.
DATA)

WO 200122297 P 20010329 WO AK DESIGNATED STATES CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT
(DESIGNATED STATES CITED IN A PUBLISHED APPL.
WITH SEARCH REPORT)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ
UA UG UZ VN YU ZA ZW

WO 200122297 P 20010329 WO AL DESIGNATED COUNTRIES FOR
REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT (DESIGNATED
COUNTRIES FOR REGIONAL PATENTS CITED IN A
PUBLISHED APPL. WITH SEARCH REPORT)

GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY
KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM
GA GN GW ML MR NE SN TD TG

WO 200122297 P 20010329 WO A1 PUBLICATION OF THE
INTERNATIONAL APPLICATION WITH THE
INTERNATIONAL SEARCH REPORT (PUB. OF THE
INTERNATIONAL APPL. WITH THE INTERNATIONAL

8/PNTIAB/1 (Item 1 from file: 654)

Set Items Description
S1 161480 PHOTO? ? OR PHOTOGRAPH? ?
S2 500639 FRAME
S3 49620 LCD OR LIQUID(1W)DISPLAY? ?
S4 3340 S1 AND S2 AND S3
S5 2375 FRAME? ?(5N)(PHOTO? ? OR PHOTOGRAPH? ?)
S6 25395 CL=345-?
S7 53 S5 AND S6
?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
?
TIMEOUT: Logged Off 04/18/01 17:42:50 by System

S1 0 DIGITAL(1W)MEDIA(1W)FRAME? ?
?
? digital(3w)frame? ?
>>>'IGITAL' not recognized as set or accession number
? s digital(3w)frame? ?
295948 DIGITAL
517489 FRAME? ?
S2 2704 DIGITAL(3W)FRAME? ?
? s photo? ? or photograph? ?
113009 PHOTO? ?
62681 PHOTOGRAPH? ?
S3 161480 PHOTO? ? OR PHOTOGRAPH? ?
? s s2 and s3
2704 S2
161480 S3
S4 426 S2 AND S3
? s internet or network
14156 INTERNET
192867 NETWORK
S5 194032 INTERNET OR NETWORK
? s s2 and s3 and s5
2704 S2
161480 S3
194032 S5
S6 115 S2 AND S3 AND S5
?

\$0.29 Estimated total session cost 0.060 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 652:US Patents Fulltext 1971-1979

(c) format only 2001 The Dialog Corp.

*File 652: Reassignment data current through 12/5/2000 recordings.

Due to processing problems, the SORT command is not working.

File 653:US Patents Fulltext 1980-1989

(c) format only 2001 The Dialog Corp.

*File 653: Reassignment data current through 12/5/2000 recordings.

Due to processing problems, the SORT command is not working.

File 654:US Pat.Full. 1990-2001/Apr 17

(c) format only 2001 The Dialog Corp.

*File 654: Reassignment data current through 12/5/2000 recordings.

US PATENTS
FULLTEXT
APR 25 2001

? dsSet Items Description

S1 14106 FRAME? ?(4N)(PICTURE? ? OR PHOTO? ? OR MEDIA)

S2 113009 FRAME? ?AND (PICTURE? ? OR PHOTO? ? OR MEDIA)/TI,AB,CM

S3 22111 FRAME? ? AND (PICTURE? ? OR PHOTO? ? OR MEDIA)/TI,AB,CM

S4 9429 FRAME? ?/TI,AB,CM AND (PICTURE? ? OR PHOTO? ? OR MEDIA)/TI-
,AB,CM

S5 41277 CL=345-? OR CL=709-? OR CL=707-?

? s s4 and s5

9429 S4

41277 S5

S6 776 S4 AND S5

? s internet or www or world(1w)web

14156 INTERNET

5412 WWW

75854 WORLD

127939 WEB

3712 WORLD(1W)WEB

S7 16523 INTERNET OR WWW OR WORLD(1W)WEB

? s s4 and s5 and s7

9429 S4

41277 S5

16523 S7

S8 85 S4 AND S5 AND S7

? t 8/pn ti ab/1-85

236120 SCREEN

3081 SAVER? ?

279 SCREEN(W)SAVER? ?

15 SCREENSAVER? ?

S8 291 SCREEN(W)SAVER? ? OR SCREENSAVER? ?

? s photo? ? or photograph? ?

113009 PHOTO? ?

62681 PHOTOGRAPH? ?

S9 161480 PHOTO? ? OR PHOTOGRAPH? ?

? s s8 and s9

291 S8

161480 S9

S10 34 S8 AND S9

? t 10/pn ti ab 6,k/1-34

10/PNTIAB6,K/1 (Item 1 from file: 654)

DIALOG(R)File 654:(c) format only 2001 The Dialog Corp. All rts. reserv.

s 40 S4 AND S5

? b 349

24apr01 18:05:34 User233828 Session D976.12

\$0.38 0.065 DialUnits File652

\$0.38 Estimated cost File652

\$0.42 0.071 DialUnits File653

\$0.42 Estimated cost File653

\$7.32 1.240 DialUnits File654

\$26.00 40 Type(s) in Format 3 (UDF)

\$26.00 40 Types

\$33.32 Estimated cost File654

OneSearch, 3 files, 1.376 DialUnits FileOS

\$1.99 TELNET

\$36.11 Estimated cost this search

\$36.11 Estimated total session cost 1.376 DialUnits

File 349:PCT Fulltext 1983-2001/UB=20010419, UT=20010405

(c) 2001 WIPO/MicroPat

? ds

Set Items Description

S1 112342 PD>19991210

S2 46 (EMAIL? OR ELECTRONIC????(5N)MAIL???) (10N)(PHOTO? ? OR PHOTOGRAPH? ? OR PICTURE? ?)

S3 17 S2 NOT S1

S4 237 SEND???(5N)(PHOTO? ? OR PICTURE? ? OR PHOTOGRAPH? ?)

S5 44530 BOX OR INBOX OR PHOTOBOX

S6 1 PHOTOBOX

S7 61910 NETWORK? ? OR INTERNET OR WORLD(1W)WEB OR URL? ?

S8 84 S4 AND S7 NOT S1

Connecting via Winsock to Dialog

Set Items Description

S1 13865 PHILIPS/CO

S2 23 FAMILY(2W)TREE

S3 1 S1 AND S2

S4 55660 PHOTO? ? OR PICTURE? ?

S5 12682 FAMILY

S6 1486 1 AND S4 AND S5

S7 96629 FRAME? ?

S8 28 S1 AND S4 AND S5 AND S6

? s s1 and s4 and s5

13865 S1

55660 S4

12682 S5

S9 28 S1 AND S4 AND S5

? t 9/6,k/1

RDR FILE 0159 SENT TO DLGDUMP RDR AS 0159 RECS 3863 CPY 001 V NOHOLD NOKEEP

Command complete

Abnormal System Termination.

Set Items Description

--- -----
? s configur??? or initializ???
67667 CONFIGUR???
11460 INITIALIZ???
S1 73994 CONFIGUR??? OR INITIALIZ???
? s appliance? ?
S2 7853 APPLIANCE? ?
? s local(5n)(telephone or phone? ? or dial???)
60917 LOCAL
33772 TELEPHONE
13572 PHONE? ?
27499 DIAL???
S3 2811 LOCAL(5N)(TELEPHONE OR PHONE? ? OR DIAL???)
? s local(5n)(number? ?) and (phone? ? or telephone? ? or dial???)
60917 LOCAL
280983 NUMBER? ?
2679 LOCAL(5N)NUMBER? ?
13572 PHONE? ?
34922 TELEPHONE? ?
27499 DIAL???
S4 1683 LOCAL(5N)(NUMBER? ?) AND (PHONE? ? OR TELEPHONE? ? OR
DIAL???)
? s s1 and s2 and (s3 or s4)
73994 S1
7853 S2
2811 S3
1683 S4
S5 244 S1 AND S2 AND (S3 OR S4)
? s pd>19991209
S6 112342 PD>19991209
? s s1 and s2 and (s3 or s4) not s6
73994 S1
7853 S2
2811 S3
1683 S4
112342 S6
S7 70 S1 AND S2 AND (S3 OR S4) NOT S6
? blication Language: English
Fulltext Word Count: 9874
? s pd>19991209
S1 112342 PD>19991209
? s (800 or 888 or toll(w)free or tollfree)(5n)(number? ?)
58900 800
5795 888
1986 TOLL
171312 FREE
518 TOLL(W)FREE
8 TOLLFREE
280983 NUMBER? ?
S2 1680 (800 OR 888 OR TOLL(W)FREE OR TOLLFREE)(5N)(NUMBER? ?)
? s (initial??? or configur???) (5n)(appliance? ?)

APR 25 2001

PCT
FULLTEXT

FILE
344

26029 PHONE? ?
1526598 NUMBER? ?
S12 1530925 LOCAL(5N)TELEPHONE? ? OR PHONE? ? OR NUMBER? ?
? s s4 and s12
793 S4
1530925 S12
S13 662 S4 AND S12
? s local(5n)(telephone? ? or phone? ? or number? ?)
192041 LOCAL
91132 TELEPHONE? ?
26029 PHONE? ?
1526598 NUMBER? ?
S14 12082 LOCAL(5N)(TELEPHONE? ? OR PHONE? ? OR NUMBER? ?)
? s s4 and s14
793 S4
12082 S14
S15 22 S4 AND S14
? t 15/pn ti ab 6,k/1-22^{ms}

Connection closed by remote host

162428 INITIAL???
 67667 CONFIGUR???
 7853 APPLIANCE? ?
 S3 167 (INITIAL??? OR CONFIGUR???) (5N) (APPLIANCE? ?)
 ? s local??? (5n) (number? ? or dial??? or phone or telephone? ?)
 74720 LOCAL???
 280983 NUMBER? ?
 27499 DIAL???
 11967 PHONE
 34922 TELEPHONE? ?
 S4 5096 LOCAL??? (5N) (NUMBER? ? OR DIAL??? OR PHONE OR TELEPHONE?
 ?)
 ? e appliance
 et Items Description
 S1 112342 PD>19991209
 S2 1680 (800 OR 888 OR TOLL(W)FREE OR TOLLFREE) (5N) (NUMBER? ?)
 S3 167 (INITIAL??? OR CONFIGUR???) (5N) (APPLIANCE? ?)
 S4 5096 LOCAL??? (5N) (NUMBER? ? OR DIAL??? OR PHONE OR TELEPHONE? ?)
 ? s s2 and s3 and s4
 1680 S2
 167 S3
 5096 S4
 S5 3 S2 AND S3 AND S4
 ? s initial??? or configur???
 162428 INITIAL???
 67667 CONFIGUR???
 S6 198866 INITIAL??? OR CONFIGUR???
 ? s appliance? ? or tv or television? ? or photo? ? or photograph? ? or picture? ?
 7853 APPLIANCE? ?
 14317 TV
 13880 TELEVISION? ?
 22886 PHOTO? ?
 9885 PHOTOGRAPH? ?
 19180 PICTURE? ?
 S7 68243 APPLIANCE? ? OR TV OR TELEVISION? ? OR PHOTO? ? OR
 PHOTOGRAPH? ? OR PICTURE? ?
 ? s s6 and s7 and s2 and s4 not s1
 198866 S6
 68243 S7
 1680 S2
 5096 S4
 112342 S1
 S8 88 S6 AND S7 AND S2 AND S4 NOT S1
 ? t 8/pn ti ab 6,k/1-88
 --- -----
 ? e pn=wo 9904342

Ref	Items	Index-term
E1	1	PN=WO 9904340
E2	1	PN=WO 9904341
E3	1	*PN=WO 9904342
E4	1	PN=WO 9904343
E5	1	PN=WO 9904344
E6	1	PN=WO 9904345
E7	1	PN=WO 9904346
E8	1	PN=WO 9904347

t Items Description

S1 7 E3-E4
 S2 1448647 CONFIGUR? OR INITIAL?
 S3 1 S1 AND S2
 S4 793 CL=713-1 OR CL=713-2
 S5 161769 PHOTO? ? OR PHOTOGRAPH? ?
 S6 10 S4 AND S5
 ? s network? ? or telephone
 206999 NETWORK? ?
 90752 TELEPHONE
 S7 251077 NETWORK? ? OR TELEPHONE
 ? s network? ? or telephone? ? or phone? ?
 206999 NETWORK? ?
 91132 TELEPHONE? ?
 26029 PHONE? ?
 S8 258580 NETWORK? ? OR TELEPHONE? ? OR PHONE? ?
 ? s s4 and s8
 793 S4
 258580 S8
 S9 388 S4 AND S8
 ? s photo? ? or photograph? ? or picture? ? or tv or television or appliance? ?
 113224 PHOTO? ?
 62785 PHOTOGRAPH? ?
 110983 PICTURE? ?
 31242 TV
 70126 TELEVISION
 40452 APPLIANCE? ?
 S10 324767 PHOTO? ? OR PHOTOGRAPH? ? OR PICTURE? ? OR TV OR
 TELEVISION OR APPLIANCE? ?
 ? s s10 and s4 and s8 not s6
 324767 S10
 793 S4
 258580 S8
 10 S6
 S11 40 S10 AND S4 AND S8 NOT S6
 ? t 11/ti ab 6,k/1-40

Set Items Description

S1 7 E3-E4
 S2 1448647 CONFIGUR? OR INITIAL?
 S3 1 S1 AND S2
 S4 793 CL=713-1 OR CL=713-2
 S5 161769 PHOTO? ? OR PHOTOGRAPH? ?
 S6 10 S4 AND S5
 S7 251077 NETWORK? ? OR TELEPHONE
 S8 258580 NETWORK? ? OR TELEPHONE? ? OR PHONE? ?
 S9 388 S4 AND S8
 S10 324767 PHOTO? ? OR PHOTOGRAPH? ? OR PICTURE? ? OR TV OR TELEVISION
 OR APPLIANCE? ?
 S11 40 S10 AND S4 AND S8 NOT S6
 ? s local(5n)telephone? ? or phone? ? or number? ?
 Processing
 192041 LOCAL
 91132 TELEPHONE? ?
 5765 LOCAL(5N)TELEPHONE? ?

S1 1031 E4-E42
S2 5631 E4-E42
S3 33 S2 AND FAMILY
S4 24154 PICTURE
S5 11 S2 AND S3 AND S4
S6 23 FAMILY(2W)TREE
S7 1 S2 AND S6
S8 2651 PICTURE(3N)FRAME? ?
S9 31 S2 AND S8
S10 12682 FAMILY
S11 31 S2 AND S8 AND S9
S12 7 S2 AND S8 AND S10
? b 16 160 20 148 481 629 614

24apr01 16:18:10 User233828 Session D976.4

\$3.35 0.737 DialUnits File348

\$0.00 1 Type(s) in Format 95 (KWIC)

\$11.20 7 Type(s) in Format 3 (UDF)

\$11.20 8 Types

\$14.55 Estimated cost File348

\$1.20 TELNET

\$15.75 Estimated cost this search

\$15.75 Estimated total session cost 0.737 DialUnits

Set Items Description

? e pa=philips

Ref Items Index-term

E1 1 PA=PHILIPPRON JEAN CLAUDE
E2 4 PA=PHILIPPUS
E3 13865 *PA=PHILIPS
E4 1 PA=PHILIPS A G
E5 78 PA=PHILIPS AB
E6 1 PA=PHILIPS AKTIEBOLAG
E7 18 PA=PHILIPS AND DU PONT OPTICAL COMPANY
E8 10 PA=PHILIPS AND DU PONT OPTICAL DEUTSCHLAND GMBH
E9 3 PA=PHILIPS BROADCAST TELEVISION SYSTEMS GMBH
E10 4 PA=PHILIPS-CARTES ET SYSTEMES
E11 4 PA=PHILIPS CIRCUITS IMPRIMES
E12 5 PA=PHILIPS COMMUNICATION D ENTREPRISE

Enter P or PAGE for more

? e

Ref Items Index-term

E13 72 PA=PHILIPS COMPOSANTS
E14 32 PA=PHILIPS COMPOSANTS ET SEMICONDUCTEURS
E15 3 PA=PHILIPS CONSUMER COMMUNICATIONS B V
E16 1 PA=PHILIPS CONSUMER COMMUNICATIONS FRANCE
E17 1 PA=PHILIPS CORPORATE INTELLECTUAL PROPERTY
E18 317 PA=PHILIPS CORPORATE INTELLECTUAL PROPERTY GMBH
E19 1 PA=PHILIPS ECG INC
E20 10 PA=PHILIPS ELECTRON OPTICS B V
E21 346 PA=PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES L
E22 2654 PA=PHILIPS ELECTRONICS N V
E23 52 PA=PHILIPS ELECTRONICS NORTH AMERICA CORPORATION
E24 466 PA=PHILIPS ELECTRONICS UK LIMITED

Enter P or PAGE for more

? e

Ref Items Index-term

E25 84 PA=PHILIPS ELECTRONIQUE GRAND PUBLIC
E26 1 PA=PHILIPS ELECTRONIQUE GRAND PUBLIC SIGLE PHILIP
E27 1 PA=PHILIPS FRANCISCUS MARIA
E28 2 PA=PHILIPS FREDERICK
E29 1 PA=PHILIPS GERALD JOHN
E30 1 PA=PHILIPS HEARING IMPLANTS
E31 1 PA=PHILIPS HOME PRODUCTS INC
E32 1 PA=PHILIPS INDUSTRIAL ELECTRONICS SERVICES B V
E33 39 PA=PHILIPS KOMMUNIKATIONS INDUSTRIE AG
E34 2 PA=PHILIPS MEDICAL SYSTEMS INCORPORATED
E35 262 PA=PHILIPS NORDEN AB
E36 2 PA=PHILIPS ORIGEN CERAMIC TECHNOLOGY LLC

Set Items Description

EUROPEAN
PATENTS

APR 25 2001

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)

(c) 2001 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set Items Description

--- -----
? set hi %%%;set hi %%%
HILIGHT set on as '%%%'
%%%'HILIGHT set on as '%%%'
? ds

JAPANESE
PATENTS

Set Items Description
S1 169060 PICTURE? ?
S2 256554 FRAME? ?
S3 56213 NETWORK? ? OR INTERNET
S4 142 S1 AND S2 AND S3
S5 456424 PD>19990923
S6 126 S1 AND S2 AND S3 NOT S5
? s photo? ? or photograph? ?
36923 PHOTO? ?
212443 PHOTOGRAPH? ?
S7 243756 PHOTO? ? OR PHOTOGRAPH? ?
? s frame? ?
S8 256554 FRAME? ?
? s internet or network
2312 INTERNET
54283 NETWORK
S9 55621 INTERNET OR NETWORK
? s s7 and s8 and s9 not s5
243756 S7
256554 S8
55621 S9
456424 S5
S10 15 S7 AND S8 AND S9 NOT S5
? t 10/pn ti ab/1-15
hus no uncomfortable feel is caused by the dots when viewed by man.
? s (picture or photo or photograph? ?)(5n)frame? ?
165136 PICTURE
35953 PHOTO
228476 PHOTOGRAPH? ?
256554 FRAME? ?
S11 8050 (PICTURE OR PHOTO OR PHOTOGRAPH? ?)(5N)FRAME? ?
? s lcd
S12 7605 LCD
? s s11 and s12
8050 S11
7605 S12
S13 53 S11 AND S12
? t 13/9/1-53
Set Items Description
S1 1 PN="JP 5101118"
?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
?

\$0.75 Estimated total session cost 0.130 DialUnits

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)

(c) 2001 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
---	-----	-----
? s picture? ?		
	S1 169060	PICTURE? ?
? s frame? ?		
	S2 256554	FRAME? ?
? s network? ? or internet		
	54889	NETWORK? ?
	2312	INTERNET
	S3 56213	NETWORK? ? OR INTERNET
? s s1 and s2 and s3		
	169060	S1
	256554	S2
	56213	S3
	S4 142	S1 AND S2 AND S3
? t 4/pn ti ab/1-142		

JAPANESE
PATENTS

APR 25 2001

? ds

>>>No sets currently exist

? s philips/co

S1 28921 PHILIPS/CO

? delete s1

Set 1 has been deleted

? s co=philips?

S1 25904 CO=PHILIPS?

? delete s1

Set 1 has been deleted

? s philips

S1 109746 PHILIPS

? delete s1

Set 1 has been deleted

? e philips

Ref Items Index-term

E1 1 PHILIPROTH

E2 2 PHILIPRWALSH

E3 109746 *PHILIPS

E4 1 PHILIPS AND DREW

E5 1 PHILIPS ARENA

E6 1 PHILIPS CD 100 (COMPACT DISC SYSTEM)

E7 1 PHILIPS COMMUNICATIONS NETWORK STRUCTURE

E8 1 PHILIPS COMPUTERIZED RADIOGRAPHY

E9 1 PHILIPS COMPUTERIZED RADIOGRAPHY (COMPUTER)

E10 1 PHILIPS CORP

E11 3 PHILIPS DATA SYSTEMS B.V.

E12 1 PHILIPS ELECTRONICS

Enter P or PAGE for more

? e co=philips

Ref Items Index-term

E1 1 CO=PHILIPPS FAIR

E2 1 CO=PHILIPPS PETROLEUM

E3 905 *CO=PHILIPS

E4 1 CO=PHILIPS (ARGENTINA)

E5 4 CO=PHILIPS (AUSTRALIA)

E6 6 CO=PHILIPS (AUSTRIA)

E7 1 CO=PHILIPS (B)

E8 2 CO=PHILIPS (BRAZIL)

E9 1 CO=PHILIPS (EDGAR)

E10 1 CO=PHILIPS (FINLAND)

E11 6 CO=PHILIPS (GERMANY)

E12 4 CO=PHILIPS (INDIA)

Enter P or PAGE for more

? e

Ref Items Index-term

E13 14 CO=PHILIPS (ITALY)

E14 2 CO=PHILIPS (JAPAN)

E15 1 CO=PHILIPS (JR)

E16 2 CO=PHILIPS (MALAYSIA)

E17 1 CO=PHILIPS (MALAYSIA) SDN. BHD.

SYSTEM:OS - DIALOG OneSearch

File 16:Gale Group PROMT(R) 1990-2001/Apr 23

(c) 2001 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group

File 20:World Reporter 1997-2001/Apr 24

(c) 2001 The Dialog Corporation

File 148:Gale Group Trade & Industry DB 1976-2001/Apr 23

(c)2001 The Gale Group

File 481:DELPHES EUR BUS 80-1999/DEC W3

(c) 1999 ACFCI & CHAMBRE COMM IND PARIS

*File 481: ***Due to technical problems, this file
is temporarily not updating.

File 629:EIU:BUS. Newsletters 2001/Apr W4

(c) 2001 Economist Intelligence Unit

File 614:AFP English Wire 1999-2001/Apr 24

(c) 2001 Agence France Press

*File 614: File 614 now contains data from 10/99 forward.
Archive data (1991-9/99) is available in File 814.

Set Items Description

--- -----

? e co=philips

Ref Items Index-term

E1	1	CO=PHILIPPS FAIR
E2	1	CO=PHILIPPS PETROLEUM
E3	905	*CO=PHILIPS
E4	1	CO=PHILIPS (ARGENTINA)
E5	4	CO=PHILIPS (AUSTRALIA)
E6	6	CO=PHILIPS (AUSTRIA)
E7	1	CO=PHILIPS (B)
E8	2	CO=PHILIPS (BRAZIL)
E9	1	CO=PHILIPS (EDGAR)
E10	1	CO=PHILIPS (FINLAND)
E11	6	CO=PHILIPS (GERMANY)
E12	4	CO=PHILIPS (INDIA)

Enter P or PAGE for more

? e

Ref Items Index-term

E13	14	CO=PHILIPS (ITALY)
E14	2	CO=PHILIPS (JAPAN)
E15	1	CO=PHILIPS (JR)
E16	2	CO=PHILIPS (MALAYSIA)
E17	1	CO=PHILIPS (MALAYSIA) SDN. BHD.
E18	42	CO=PHILIPS (NETHERLANDS)
E19	25	CO=PHILIPS (NV)
E20	1	CO=PHILIPS (PORTUGAL)
E21	1	CO=PHILIPS (ROBERT H)
E22	1	CO=PHILIPS (SINGAPORE)
E23	3	CO=PHILIPS (TAIWAN)
E24	6	CO=PHILIPS (UK)

Enter P or PAGE for more

Product
Search

APR 25 2001

Ref Items Index-term

E37 1 CO=PHILIPS & MBLE ASSOC
E38 1 CO=PHILIPS & PICKER MED SYS
E39 4 CO=PHILIPS & PICKER MEDICAL
E40 1 CO=PHILIPS & SANYE
E41 2 CO=PHILIPS & SANYE PASSIVE COMP
E42 1 CO=PHILIPS & SANYE PASSIVE COMPONENTS NO. 1
E43 1 CO=PHILIPS & SANYE PASSIVE COMPONENTS NO. 1 CO.
E44 1 CO=PHILIPS & SKY MEDICAL SYSTEMS
E45 1 CO=PHILIPS & THOMSON
E46 1 CO=PHILIPS & YAMING LIGHTING LTD.
E47 1 CO=PHILIPS AACHEN LABS
E48 1 CO=PHILIPS ACCESSORIES

Enter P or PAGE for more

? e

Ref Items Index-term

E49 1 CO=PHILIPS ACE
E50 1 CO=PHILIPS ADVANCED CERAMICS

? e

Ref Items Index-term

E1 1 CO=PHILIPS ADVANCED CERAMICS
E2 2 CO=PHILIPS ADVANCED LODGING
E3 103 CO=PHILIPS AG
E4 1 CO=PHILIPS AIR VISION
E5 7 CO=PHILIPS AIRVISION
E6 1 CO=PHILIPS ALIMENTATIONS
E7 1 CO=PHILIPS ALLEMAGNE
E8 36 CO=PHILIPS ANALYTICAL
E9 1 CO=PHILIPS ANALYTICAL (NETH)
E10 1 CO=PHILIPS ANALYTICAL INC.
E11 2 CO=PHILIPS ANALYTICAL TECHNOLOGY
E12 2 CO=PHILIPS ANALYTICAL X-RAY

Enter P or PAGE for more

? e

Ref Items Index-term

E13 3 CO=PHILIPS ANALYTICAL X-RAY (CAMBRIDGE, UNITED KI
E14 8 CO=PHILIPS ANALYTICAL X-RAY B.V.
E15 2 CO=PHILIPS AND ACUSTAR AUTOELECTRONICS GMBH AND C
E16 7 CO=PHILIPS AND CO.
E17 2 CO=PHILIPS AND DREW
E18 2 CO=PHILIPS AND DREW FUNDS MANAGEMENT
E19 1 CO=PHILIPS AND DU PONT OPTICAL (PDO)
E20 26 CO=PHILIPS AND DU PONT OPTICAL CO.
E21 1 CO=PHILIPS AND DUPOND APTICAL
E22 20 CO=PHILIPS AND DUPONT OPTICAL CO.
E23 2 CO=PHILIPS AND FOLLAND
E24 8 CO=PHILIPS AND JVC VIDEO MALAYSIA SDN. BHD.

Enter P or PAGE for more

? e

E18 42 CO=PHILIPS (NETHERLANDS)
 E19 25 CO=PHILIPS (NV)
 E20 1 CO=PHILIPS (PORTUGAL)
 E21 1 CO=PHILIPS (ROBERT H)
 E22 1 CO=PHILIPS (SINGAPORE)
 E23 3 CO=PHILIPS (TAIWAN)
 E24 6 CO=PHILIPS (UK)

Enter P or PAGE for more

? e

Ref	Items	Index-term
E25	2	CO=PHILIPS (US)
E26	6	CO=PHILIPS (USA)
E27	4	CO=PHILIPS (W GERMANY)
E28	1	CO=PHILIPS (WEST GERMANY)
E29	5	CO=PHILIPS & ACUSTAR AUTOELECTRON
E30	1	CO=PHILIPS & DUPONT
E31	2	CO=PHILIPS & DUPONT OPTICAL
E32	50	CO=PHILIPS & DUPONT OPTICL
E33	2	CO=PHILIPS & GRUNDIG FUNK
E34	1	CO=PHILIPS & JACOBS
E35	1	CO=PHILIPS & JORDAN
E36	1	CO=PHILIPS & JVC VIDEO

Enter P or PAGE for more

? s e3-e28

905 CO=PHILIPS
 1 CO=PHILIPS (ARGENTINA)
 4 CO=PHILIPS (AUSTRALIA)
 6 CO=PHILIPS (AUSTRIA)
 1 CO=PHILIPS (B)
 2 CO=PHILIPS (BRAZIL)
 1 CO=PHILIPS (EDGAR)
 1 CO=PHILIPS (FINLAND)
 6 CO=PHILIPS (GERMANY)
 4 CO=PHILIPS (INDIA)
 14 CO=PHILIPS (ITALY)
 2 CO=PHILIPS (JAPAN)
 1 CO=PHILIPS (JR)
 2 CO=PHILIPS (MALAYSIA)
 1 CO=PHILIPS (MALAYSIA) SDN. BHD.
 42 CO=PHILIPS (NETHERLANDS)
 25 CO=PHILIPS (NV)
 1 CO=PHILIPS (PORTUGAL)
 1 CO=PHILIPS (ROBERT H)
 1 CO=PHILIPS (SINGAPORE)
 3 CO=PHILIPS (TAIWAN)
 6 CO=PHILIPS (UK)
 2 CO=PHILIPS (US)
 6 CO=PHILIPS (USA)
 4 CO=PHILIPS (W GERMANY)
 1 CO=PHILIPS (WEST GERMANY)

S1 1043 E3-E28

? e

Ref	Items	Index-term
E13	1	CO=PHILIPS BSNS SYS (US)
E14	4	CO=PHILIPS BTS
E15	1	CO=PHILIPS BUSINESS CENTRE
E16	1	CO=PHILIPS BUSINESS COMM
E17	19	CO=PHILIPS BUSINESS COMMUNICATIONS
E18	1	CO=PHILIPS BUSINESS COMMUNICATIONS SYSTEMS
E19	11	CO=PHILIPS BUSINESS ELECTRONICS
E20	12	CO=PHILIPS BUSINESS ELECTRONICS B.V.
E21	1	CO=PHILIPS BUSINESS EQUIP
E22	2	CO=PHILIPS BUSINESS INFORMATION
E23	23	CO=PHILIPS BUSINESS SYS
E24	4	CO=PHILIPS BUSINESS SYSTEMS

Enter P or PAGE for more

? e

Ref	Items	Index-term
E25	23	CO=PHILIPS BUSINESS SYSTEMS INC.
E26	5	CO=PHILIPS BV
E27	1	CO=PHILIPS C AND P
E28	4	CO=PHILIPS CANADA
E29	2	CO=PHILIPS CANADA LTD.
E30	2	CO=PHILIPS CAR STEREO
E31	20	CO=PHILIPS CAR STEREO INTERNATIONAL GMBH
E32	35	CO=PHILIPS CAR SYSTEMS
E33	3	CO=PHILIPS CAR SYSTEMS (PCS)
E34	1	CO=PHILIPS CAR SYSTEMS DIV.
E35	1	CO=PHILIPS CAR SYSTEMS INTERNATIONAL GMBH
E36	1	CO=PHILIPS CARBON

Enter P or PAGE for more

? e philips electronics

Ref	Items	Index-term
E1	1	PHILIPS CORP
E2	3	PHILIPS DATA SYSTEMS B.V.
E3	1	*PHILIPS ELECTRONICS
E4	1	PHILIPS ELECTRONIKINDUSTRIER AB
E5	1	PHILIPS EXPORT B.V.
E6	2	PHILIPS GLOEILAMPENFABRICKEN N.V.
E7	1	PHILIPS GLOEILAMPENFABRICKEN NV
E8	1	PHILIPS GLOEILAMPENFABRIEKEN
E9	1	PHILIPS GLOEILAMPENFABRIEKEN N.V
E10	239	PHILIPS GLOEILAMPENFABRIEKEN N.V.
E11	1	PHILIPS GLOEILAMPENFABRIEKEN N.V. DATA SYSTEMS
E12	1	PHILIPS GLOEILAMPENFABRIEKEN N.V. ELECTRONIC C

Enter P or PAGE for more

? s co=philips

S2 905 CO=PHILIPS

? s co=philips?

S3 25904 CO=PHILIPS?

? s interactiv? and family and tree

645749 INTERACTIV?

1622107 FAMILY

Ref	Items	Index-term
E25	1	CO=PHILIPS AND KING ADVERTISING
E26	1	CO=PHILIPS AND PICKER MEDICAL SYSTEMS
E27	1	CO=PHILIPS AND TELEPHONE PRODUCTS INC.
E28	2	CO=PHILIPS AND WILSON
E29	1	CO=PHILIPS AND YAMING LIGHTING LTD
E30	8	CO=PHILIPS APPEL AND WALDEN INC.
E31	2	CO=PHILIPS APPEL WALDEN
E32	21	CO=PHILIPS ARENA
E33	3	CO=PHILIPS ARGENTINA
E34	1	CO=PHILIPS ASSOCIATES OF MANHATTAN
E35	1	CO=PHILIPS AUDIO
E36	13	CO=PHILIPS AUDIO VIDEO

Enter P or PAGE for more

? e

Ref	Items	Index-term
E37	12	CO=PHILIPS AUSTRALIA
E38	1	CO=PHILIPS AUSTRALIA OIL
E39	1	CO=PHILIPS AUSTRIA
E40	2	CO=PHILIPS AUTOMOTIVE ELECTRONICS
E41	1	CO=PHILIPS AUTOMOTIVE LIGHTING HUBEI
E42	1	CO=PHILIPS AVIATION
E43	3	CO=PHILIPS BATTERIES
E44	1	CO=PHILIPS BELGIE
E45	1	CO=PHILIPS BELGIQUE
E46	10	CO=PHILIPS BELGIUM
E47	3	CO=PHILIPS BETEILIGUNGS AG
E48	1	CO=PHILIPS BG AUDIO

Enter P or PAGE for more

? e

Ref	Items	Index-term
E49	33	CO=PHILIPS BRASIL
E50	4	CO=PHILIPS BROADBAND NETWORK

? e

Ref	Items	Index-term
E1	4	CO=PHILIPS BROADBAND NETWORK
E2	18	CO=PHILIPS BROADBAND NETWORK INC.
E3	15	CO=PHILIPS BROADBAND NETWORKS
E4	34	CO=PHILIPS BROADBAND NETWORKS INC.
E5	2	CO=PHILIPS BROADCAST EQUIPMENT CORP.
E6	1	CO=PHILIPS BROADCAST TEL (GER)
E7	2	CO=PHILIPS BROADCAST TELEVISION SY
E8	3	CO=PHILIPS BROADCAST TELEVISION SYSTEMS
E9	4	CO=PHILIPS BROADCAST TELEVISION SYSTEMS CO.
E10	8	CO=PHILIPS BROADCAST TELEVISION SYSTEMS INC.
E11	3	CO=PHILIPS BROADCASTING EQP
E12	2	CO=PHILIPS BROTHERS ELECTRICAL CONTRACTORS INC.

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>>> or undefined in one or more files.

S5 3169473 PY>1999

? s s2 and s5

11 S2

3169473 S5

LOG(R)File 654:(c) format only 2001 The Dialog Corp. All rts. reserv.

REMOTE CONTROL

PATENT NO.: D424,061

ISSUED: May 02, 2000 (20000502)

? e pa=replay

Ref	Items	Index-term
E1	4	*PA=REPLAY
E2	1	PA=REPLAY AMUSEMENTS INC
E3	2	PA=REPLICA
E4	1	PA=REPLICA ASSOC INC
E5	1	PA=REPLICA ASSOCIATES INC
E6	1	PA=REPLICA PLASTICS
E7	5	PA=REPLICAP
E8	5	PA=REPLICAP PRODUCTS INC
E9	1	PA=REPLICATECH
E10	1	PA=REPLICATECH INC
E11	1	PA=REPLICATION
E12	1	PA=REPLICATION MEDICAL INC

PRODUCT
SEARCH

Enter P or PAGE for more

? e pa=replay tv

Ref	Items	Index-term
E1	1	PA=REPLAY AMUSEMENTS INC
E2	0	*PA=REPLAY TV
E3	2	PA=REPLICA
E4	1	PA=REPLICA ASSOC INC
E5	1	PA=REPLICA ASSOCIATES INC
E6	1	PA=REPLICA PLASTICS
E7	5	PA=REPLICAP
E8	5	PA=REPLICAP PRODUCTS INC
E9	1	PA=REPLICATECH
E10	1	PA=REPLICATECH INC
E11	1	PA=REPLICATION
E12	1	PA=REPLICATION MEDICAL INC

Enter P or PAGE for more

? ds

Set	Items	Description
S1	7	E3-E4
S2	1448647	CONFIGUR? OR INITIAL?
S3	1	S1 AND S2
? s cl=713-1 or cl=713-2		
	472	CL=713-1
	391	CL=713-2
S4	793	CL=713-1 OR CL=713-2
? s photo? ? or photograph? ?		

192275 TREE

S4 1887 INTERACTIV? AND FAMILY AND TREE

? s s3 and s4

25904 S3

1887 S4

S5 6 S3 AND S4

ds

Set Items Description

S1 1043 E3-E28

S2 905 CO=PHILIPS

S3 25904 CO=PHILIPS?

S4 1887 INTERACTIV? AND FAMILY AND TREE

S5 6 S3 AND S4

S6 27 INTERACTIV? (2W)FAMILY(2W)TREE

S7 109746 PHILIPS

S8 2 S6 AND S7

S9 4014 FAMILY(2W)TREE

S10 27 S7 AND S9

? b 348

24apr01 16:32:23 User233828 Session D976.5

\$4.13 0.764 DialUnits File16

\$3.25 1 Type(s) in Format 9

\$3.50 14 Type(s) in Format 95 (KWIC)

\$6.75 15 Types

\$10.88 Estimated cost File16

\$0.96 0.178 DialUnits File160

\$0.96 Estimated cost File160

\$0.72 0.724 DialUnits File20

\$5.50 2 Type(s) in Format 9

\$0.00 2 Type(s) in Format 95 (KWIC)

\$5.50 4 Types

\$6.22 Estimated cost File20

\$6.20 1.148 DialUnits File148

\$4.25 17 Type(s) in Format 95 (KWIC)

\$4.25 17 Types

\$10.45 Estimated cost File148

\$0.52 0.145 DialUnits File481

\$0.52 Estimated cost File481

\$0.58 0.138 DialUnits File629

\$0.58 Estimated cost File629

\$0.18 0.175 DialUnits File614

\$0.18 Estimated cost File614

OneSearch, 7 files, 3.272 DialUnits FileOS

\$3.00 TELNET

\$32.79 Estimated cost this search

\$48.54 Estimated total session cost 4.009 DialUnits

113224 PHOTO? ?

62785 PHOTOGRAPH? ?

S5 161769 PHOTO? ? OR PHOTOGRAPH? ?

? s s4 and s5

793 S4

161769 S5

S6 10 S4 AND S5

? t 6/pn,ti,ab/1-10

File 202:INFORMATION SCIENCE ABS. 1966-2001/ISSUE 02
(c) INFORMATION TODAY, INC

*File 202: The file now includes e-journals. For more information
see Help News202.

File 233:Internet & Personal Comp. Abs. 1981-2001/Apr
(c) 2001 Info. Today Inc.

File 238:Abs. in New Tech & Eng. 1981-2001/Mar
(c) 2001 Reed-Elsevier (UK) Ltd.

File 275:Gale Group Computer DB(TM) 1983-2001/Apr 17
(c) 2001 The Gale Group

File 674:Computer News Fulltext 1989-2001/Apr W2
(c) 2001 IDG Communications

File 696:DIALOG Telecom. Newsletters 1995-2001/Apr 18
(c) 2001 The Dialog Corp.

File 256:SoftBase:Reviews,Companies&Prods. 85-2001/Mar
(c)2001 Info.Sources Inc

File 278:Microcomputer Software Guide 2001/Mar
(c) 2001 Reed Elsevier Inc.

Set Items Description

--- -----

? e co=hagiwara sys-com

Ref Items Index-term

E1	5	*CO=HAGIWARA SYS-COM
E2	66	CO=HAGLER
E3	5	CO=HAGLER BAILLY CONSULTING
E4	10	CO=HAGLER BAILLY CONSULTING INC.
E5	5	CO=HAGLER BAILLY INC
E6	1	CO=HAGLER BAILLY INC.
E7	44	CO=HAGLER BAILLY SERVICES, INC.
E8	3	CO=HAGLER BAILLY, INC.
E9	3	CO=HAGO CORP
E10	1	CO=HAGSTROMER
E11	1	CO=HAGUE PROGRAMME ADVISORY COUNCIL
E12	1	CO=HAHABONK.COM

Enter P or PAGE for more

? s el

>>>One or more prefixes are unsupported

>>> or undefined in one or more files.

S1 5 CO="HAGIWARA SYS-COM"

? ds

Set . Items Description

S1 5 CO="HAGIWARA SYS-COM"

? s lukis

S2 11 LUKIS

? s jpeg

S3 13681 JPEG

? s s2 and s3

11 S2

13681 S3

S4 0 S2 AND S3

? s py>1999

>>>One or more prefixes are unsupported

\$0.73 Estimated cost this search

\$0.73 Estimated total session cost 0.061 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1969-2001/Apr W3

(c) 2001 Institution of Electrical Engineers

*File 2: Please note new price changes effective January 1, 2001.

See Help Rates2 for details.

File 6:NTIS 1964-2001/Apr W5

Comp&distr 2000 NTIS, Intl Cpyrght All Right

*File 6: See HELP CODES6 for a short list of the Subject Heading Codes (SC=, SH=) used in NTIS.

File 8:Ei Compendex(R) 1970-2001/Mar W3

(c) 2001 Engineering Info. Inc.

File 34:SciSearch(R) Cited Ref Sci 1990-2001/Apr W3

(c) 2001 Inst for Sci Info

*File 34: Please note new price changes effective January 1, 2001.

See Help Rates34 for details.

File 65:Inside Conferences 1993-2001/Apr W3

(c) 2001 BLDSC all rts. reserv.

*File 65: CD=2000 and CY=2000 are not fully functioning.

Please see Help News65 for details.

File 92:IHS Intl.Stds.& Specs. 1999/Nov

(c) 1999 Information Handling Services

*File 92: Due to IP format changes the file will not update for several months.

File 94:JICST-EPlus 1985-2001/Apr W1

(c)2001 Japan Science and Tech Corp(JST)

*File 94: There is no data missing. UDs have been adjusted to reflect the current months data. See Help News94 for details.

File 99:Wilson Appl. Sci & Tech Abs 1983-2001/Mar

(c) 2001 The HW Wilson Co.

File 103:Energy SciTec 1974-2001/Apr B1

(c) 2001 Contains copyrighted material

*File 103: For updates please see Help News103.

For access restrictions, see HELP RESTRICT.

File 108:AEROSPACE DATABASE 1962-2001/APR

(c) 2001 AIAA

*File 108: For update information please see Help News108.

File 144:Pascal 1973-2001/Apr W3

(c) 2001 INIST/CNRS

File 239:Mathsci 1940-2001/May

(c) 2001 American Mathematical Society

File 241:Elec. Power DB 1972-1999Jan

(c) 1999 Electric Power Research Inst.Inc

*File 241: This file is closed (no updates)

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 1998 Inst for Sci Info

*File 434: Please note new price changes effective January 1, 2001.

See Help Rates434 for details.

File 647:CMP Computer Fulltext 1988-2001/Apr W3

(c) 2001 CMP

File 35:Dissertation Abstracts Online 1861-2001/May

(c) 2001 UMI

File 77:Conference Papers Index 1973-2001/Mar

(c) 2001 Cambridge Sci Abs

PRODUCT
SEARCHES

APR 25 2001

tandis que les donnees audio le sont par un convertisseur A/N (36) en informations audio dirigees sur des dispositifs de sortie (22, 23). Si on presse alors la touche d'avance et la touche de retour de la commande (10), on peut changer le numero n du fichier de donnees a lire sur le support d'enregistrement.

? t 1/4/1

1/4/1
DIALOG(R)File 349:PCT Fulltext
(c) 2001 WIPO/MicroPat. All rts. reserv.

00670022 **Image available**
AZ- 00670022
TI- <ENGLISH> REPRODUCING DEVICE
TI- <FRENCH> DISPOSITIF DE REPRODUCTION
PA- **HAGIWARA SYS-COM CO LTD**, HAGIWARA SYS-COM CO., LTD. , 2-4-3,
Nishiki, Naka-ku, Nagoya-shi, Aichi 460-0003 , JP|
AU- OKAMOTO Shinken, OKAMOTO, Shinken , 38-22, Matsunami, Akebono-cho,
Toyohashi-shi, Aichi 441-8151 , JP
AU- TAKAHASHI Isamu, TAKAHASHI, Isamu , 177-4, Hongo, Tokushige,
Nishiharu-cho, Nishikasugai-gun, Aichi 481-0038 , JP|
PN- WO 9954663 A1 19991028|
AN- WO 98JP1772 19980417|
PR- WO 98JP1772 19980417|
DS- JP; US; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL;
PT; SE|
IC- <MAIN> F24C-007/02 |
IC- G06F-012/00 G11B-020/10 H04N-005/93 |
LA- <PUB> Japanese|
LF- <FILING> Japanese|
WD- 0|
AB- <ENGLISH> Storage media containing still image data, dynamic image data
and audio data in respective compression schemes are inserted into an
insertion opening (21). When a replay button at an operation unit (10)
is operated, a processing unit (31) reads data file with file number n
from the storage media to check if the retrieved data file is still
image data, dynamic image data or audio data and decompresses the data
based on the decompression program conforming to that data. The still
image data and dynamic image data decompressed by using the
corresponding decompression programs are converted by a video decoder
(34) and a video RAM (35) into image information and the audio data is
converted by an A/D converter (36) into audio information for output
from output terminals (22, 23). At this time, operating the feed button
and return button at the operation unit (10) allows the file number n
of the data file read from the storage media to be changed.|
AB- <FRENCH> On introduit dans un orifice (21) d'insertion un support
d'enregistrement pour images fixes, images animees et donnees audio
assorties de leurs schemas respectifs de compression. Lorsqu'on presse
la touche de repetition de la commande, une unite de traitement (31)
lit sur le support un fichier de donnees dont le numero n indique si
ledit fichier correspond a des images fixes, des images animees ou des
donnees audio, et decomprime les donnees avec le programme de
decompression correspondant. Les donnees d'images apres decompression
sont converties par un decodeur (34) video et une RAM video en
informations d'image, tandis que les donnees audio le sont par un
convertisseur A/N (36) en informations audio dirigees sur des
dispositifs de sortie (22, 23). Si on presse alors la touche d'avance
et la touche de retour de la commande (10), on peut changer le numero n
du fichier de donnees a lire sur le support d'enregistrement.|

? b 345

18apr01 13:32:07 User233828 Session D969.7
\$1.40 0.294 DialUnits File349
\$5.10 1 Type(s) in Format 5
\$5.10 1 Type(s) in Format 5 (UDF)
\$10.20 2 Types
\$11.60 Estimated cost File349

\$2.88 Estimated total session cost 0.260 DialUnits

File 349:PCT Fulltext 1983-2001/UB=20010412, UT=20010329
(c) 2001 WIPO/MicroPat

Set Items Description

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? e co=hagiwara sys

Ref	Items	Index-term
E1	1	CO=HAGIWARA SHOZOU
E2	2	CO=HAGIWARA SHUUJI
E3	0	*CO=HAGIWARA SYS
E4	1	CO=HAGIWARA SYS-COM CO LTD
E5	1	CO=HAGIWARA SYUUYA
E6	1	CO=HAGIWARA TADASHI
E7	2	CO=HAGIWARA TAKASHI
E8	1	CO=HAGIWARA TAKAYUKI
E9	1	CO=HAGIWARA TAKESHI
E10	1	CO=HAGIWARA TOSHIMITSU
E11	3	CO=HAGIWARA TSUNEO
E12	1	CO=HAGIWARA YOSHIAKI

Enter P or PAGE for more

? s e4

S1 1 CO="HAGIWARA SYS-COM CO LTD"

? t 1/ti ab/1

1/TIAB/1

DIALOG(R)File 349:(c) 2001 WIPO/MicroPat. All rts. reserv.

REPRODUCING DEVICE
DISPOSITIF DE REPRODUCTION

English Abstract

Storage media containing still image data, dynamic image data and audio data in respective compression schemes are inserted into an insertion opening (21). When a replay button at an operation unit (10) is operated, a processing unit (31) reads data file with file number n from the storage media to check if the retrieved data file is still image data, dynamic image data or audio data and decompresses the data based on the decompression program conforming to that data. The still image data and dynamic image data decompressed by using the corresponding decompression programs are converted by a video decoder (34) and a video RAM (35) into image information and the audio data is converted by an A/D converter (36) into audio information for output from output terminals (22, 23). At this time, operating the feed button and return button at the operation unit (10) allows the file number n of the data file read from the storage media to be changed.

French Abstract

On introduit dans un orifice (21) d'insertion un support d'enregistrement pour images fixes, images animees et donnees audio assorties de leurs schemas respectifs de compression. Lorsqu'on presse la touche de repetition de la commande, une unite de traitement (31) lit sur le support un fichier de donnees dont le numero n indique si ledit fichier correspond a des images fixes, des images animees ou des donnees audio, et decomprime les donnees avec le programme de decompression correspondant. Les donnees d'images apres decompression sont converties par un decodeur (34) video et une RAM video en informations d'image,

COUNTRIES FOR REGIONAL PATENTS CITED IN A
PUBLISHED APPL. WITH SEARCH REPORT)
AT BE CH CY DE DK ES FI GB GR IE IT LU MC
NL PT SE

WO 9954663 P 19991028 WO A1 PUBLICATION OF THE
INTERNATIONAL APPLICATION WITH THE
INTERNATIONAL SEARCH REPORT (PUB. OF THE
INTERNATIONAL APPL. WITH THE INTERNATIONAL
SEARCH REPORT)
WO 9954663 P 19991229 WO DFPE REQUEST FOR PRELIMINARY
EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE
WO 9954663 P 19991229 WO 121 EP: PCT APP. ART. 158 (1)
(EP: PCT ANM. ART. 158 (1))

? b 347

18apr01 13:33:57 User233828 Session D969.8
\$1.12 0.233 DialUnits File345
\$9.90 1 Type(s) in Format 9
\$9.90 1 Types
\$11.02 Estimated cost File345
\$0.40 TELNET
\$11.42 Estimated cost this search
\$27.29 Estimated total session cost 0.787 DialUnits

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)
(c) 2001 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set Items Description
--- ---

? e pn=jp 5101118

Ref	Items	Index-term
E1	1	PN=JP 5101116
E2	1	PN=JP 5101117
E3	1	*PN=JP 5101118
E4	1	PN=JP 5101119
E5	1	PN=JP 5101120
E6	1	PN=JP 5101121
E7	1	PN=JP 5101122
E8	1	PN=JP 5101123
E9	1	PN=JP 5101124
E10	1	PN=JP 5101125
E11	1	PN=JP 5101126
E12	1	PN=JP 5101127

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? s e3

S1 1 PN="JP 5101118"

? t 1/9/1

1/9/1

DIALOG(R)File 347:JAPIO

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04109418 **Image available**
MULTIMEDIA FILING SYSTEM

PUB. NO.: 05-101118 [JP 5101118 A]
PUBLISHED: April 23, 1993 (19930423)
INVENTOR(s): FUJIMORI HIROYOSHI
NAGASAKI TATSUO
WAKAMATSU SEIICHI
IMAIDE SHINICHI
HATANAKA AKIRA

\$1.39 TELNET
-\$12.99-->Estimated cost this search
\$15.87 Estimate total session cost 0.554 Dial ts

File 345:Inpadoc/Fam.& Legal Stat 1968-2001/UD=200114
(c) 2001 EPO

Set Items Description

? e pn=wo 9954663

Ref	Items	Index-term
E1	1	PN=WO 9954661
E2	1	PN=WO 9954662
E3	1	*PN=WO 9954663
E4	1	PN=WO 9954664
E5	1	PN=WO 9954665
E6	1	PN=WO 9954666
E7	1	PN=WO 9954667
E8	1	PN=WO 9954668
E9	1	PN=WO 9954669
E10	1	PN=WO 9954670
E11	1	PN=WO 9954671
E12	1	PN=WO 9954672

Enter P or PAGE for more

? s e3
S1 1 PN="WO 9954663"
? t 1/9/1

1/9/1
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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15480718
Basic Patent (No,Kind,Date): WO 9954663 A1 19991028 <No. of Patents: 001>

PATENT FAMILY:

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9954663 A1 19991028

REPRODUCING DEVICE (English)

Patent Assignee: HAGIWARA SYS COM CO LTD (JP); OKAMOTO SHINKEN (JP);
TAKAHASHI ISAMU (JP)

Author (Inventor): OKAMOTO SHINKEN (JP); TAKAHASHI ISAMU (JP)

Priority (No,Kind,Date): WO 98JP1772 A 19980417

Applic (No,Kind,Date): WO 98JP1772 A 19980417

Designated States: (National) JP; US (Regional) AT; BE; CH; CY; DE;
DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 100000 With international search report

IPC: * F24C-007/02; G06F-012/00; G11B-020/10; H04N-005/93

Derwent WPI Acc No: ; G 2000-061989

Language of Document: Japanese

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9954663 P 19980417 WO AE APPLICATION DATA (APPL.
DATA)

WO 9954663 P 19991028 WO AK DESIGNATED STATES CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT
(DESIGNATED STATES CITED IN A PUBLISHED APPL.
WITH SEARCH REPORT)
JP US

WO 9954663 P 19991028 WO AL DESIGNATED COUNTRIES FOR
REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT (DESIGNATED

Set	Items	Description
? set hi ;set hi		
HILIGHT set on as ''		
HILIGHT set on as ''		
? b 347		
18apr01 14:04:39	User233828	Session D969.10
\$0.75	0.068 DialUnits	File347
\$0.75	Estimated cost	File347
\$0.11	TELNET	
\$0.86	Estimated cost this search	
\$0.86	Estimated total session cost	0.068 DialUnits

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)
(c) 2001 JPO & JAPIO
*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
? e pn=jp 5101118		

Ref	Items	Index-term
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E5	1	PN=JP 5101120
E6	1	PN=JP 5101121
E7	1	PN=JP 5101122
E8	1	PN=JP 5101123
E9	1	PN=JP 5101124
E10	1	PN=JP 5101125
E11	1	PN=JP 5101126
E12	1	PN=JP 5101127

Enter P or PAGE for more
? s e3
S1 1 PN="JP 5101118"
? t 1/9/1

1/9/1
DIALOG(R)File 347:JAPIO
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04109418 **Image available**
MULTIMEDIA FILING SYSTEM

PUB. NO.: 05-101118 [JP 5101118 A]
PUBLISHED: April 23, 1993 (19930423)
INVENTOR(s): FUJIMORI HIROYOSHI
NAGASAKI TATSUO
WAKAMATSU SEIICHI
IMAIDE SHINICHI
HATANAKA AKIRA
APPLICANT(s): OLYMPUS OPTICAL CO LTD [000037] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-251904 [JP 91251904]
FILED: September 30, 1991 (19910930)
INTL CLASS: [5] G06F-015/40; G06F-012/00; G06F-015/62; H04N-005/76; H04N-005/91
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 42.5 (ELECTRONICS -- Equipment); 44.6 (COMMUNICATION -- Television); 45.2 (INFORMATION PROCESSING -- Memory Units)
JAPIO KEYWORD:R002 (LASERS); R101 (APPLIED ELECTRONICS -- Video Tape

APPLICANT(s): OLYMPUS OPTICAL CO LTD [000037] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-2519 [JP 91251904]
FILED: September 30, 1991 (19910930)
INTL CLASS: [5] G06F-015/40; G06F-012/00; G06F-015/62; H04N-005/76; H04N-005/91
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 42.5 (ELECTRONICS -- Equipment); 44.6 (COMMUNICATION -- Television); 45.2 (INFORMATION PROCESSING -- Memory Units)
JAPIO KEYWORD: R002 (LASERS); R101 (APPLIED ELECTRONICS -- Video Tape Recorders, VTR); R102 (APPLIED ELECTRONICS -- Video Disk Recorders, VDR); R107 (INFORMATION PROCESSING -- OCR & OMR Optical Readers); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)
JOURNAL: Section: P, Section No. 1596, Vol. 17, No. 454, Pg. 65, August 19, 1993 (19930819)

ABSTRACT

PURPOSE: To obtain a multimedia filing system which enables a small-sized computer to independently or simultaneously perform file control (editing, processing, filing, and communication) over image data signals (moving) (still), sound data signals, text data signals, etc., and organically combines various data signals to speedily and accurately generate information that a user requests.

CONSTITUTION: The multimedia filing system is equipped with at least one small-sized computer 20 which can simultaneously or independently handle the image data signals (moving) (still), sound data signals, text data signals, etc., a sound and image input/output device 23, a text data input/output device 25, an image data and text data display device 26, a device 22 stored with computer processed image, speech, and text data signals, and a data communication device 24, and a data processing part which processes information data by editing, filing, communication, etc., on an interaction basis, with at least one of the above described devices.

?

PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

?

TIMEOUT: Logged Off 04/18/01 13:44:28 by System

?

Connecting via Winsock to Dialog

Logging in to Dialog

Trying 3106...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

ENTER PASSWORD:

Welcome to DIALOG

Dialog level 00.12.12D

Reconnected in file 347 18apr01 14:04:03

& * * F234 unavailable * * *

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)

(c) 2001 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.
Alerts have been run. See HELP NEWS 347 for details.

18apr01 14:25:43 User233828 Session D969.12
\$0.67 0.061 DialUnits File347
\$0.67 Estimated cost this search
\$0.06 TELNET
\$0.73 Estimated cost this search
\$0.73 Estimated total session cost 0.061 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 2:INSPEC 1969-2001/Apr W3
(c) 2001 Institution of Electrical Engineers
*File 2: Please note new price changes effective January 1, 2001.
See Help Rates2 for details.
File 6:NTIS 1964-2001/Apr W5
Comp&distr 2000 NTIS, Intl Cpyrght All Right
*File 6: See HELP CODES6 for a short list of the Subject Heading Codes
(SC=, SH=) used in NTIS.
File 8:EI Compendex(R) 1970-2001/Mar W3
(c) 2001 Engineering Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2001/Apr W3
(c) 2001 Inst for Sci Info
*File 34: Please note new price changes effective January 1, 2001.
See Help Rates34 for details.
File 65:Inside Conferences 1993-2001/Apr W3
(c) 2001 BLDSC all rts. reserv.
*File 65: CD=2000 and CY=2000 are not fully functioning.
Please see Help News65 for details.
File 92:IHS Intl.Stds.& Specs. 1999/Nov
(c) 1999 Information Handling Services
*File 92: Due to IP format changes the file will not update for
several months.
File 94:JICST-EPlus 1985-2001/Apr W1
(c)2001 Japan Science and Tech Corp(JST)
*File 94: There is no data missing. UDs have been adjusted to reflect
the current months data. See Help News94 for details.
File 99:Wilson Appl. Sci & Tech Abs 1983-2001/Mar
(c) 2001 The HW Wilson Co.
File 103:Energy SciTec 1974-2001/Apr B1
(c) 2001 Contains copyrighted material
*File 103: For updates please see Help News103.
For access restrictions, see HELP RESTRICT.
File 108:AEROSPACE DATABASE 1962-2001/APR
(c) 2001 AIAA
*File 108: For update information please see Help News108.
File 144:Pascal 1973-2001/Apr W3
(c) 2001 INIST/CNRS
File 239:Mathsci 1940-2001/May
(c) 2001 American Mathematical Society
File 241:Elec. Power DB 1972-1999Jan
(c) 1999 Electric Power Research Inst.Inc
*File 241: This file is closed (no updates)
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
*File 434: Please note new price changes effective January 1, 2001.
See Help Rates434 for details.
File 647:CMP Computer Fulltext 1988-2001/Apr W3
(c) 2001 CMP
File 35:Dissertation Abstracts Online 1861-2001/May
(c) 2001 UMI
File 77:Conference Papers Index 1973-2001/Mar
(c) 2001 Cambridge Sci Abs
File 202:INFORMATION SCIENCE ABS. 1966-2001/ISSUE 02
(c) INFORMATION TODAY, INC
*File 202: The file now includes e-journals. For more information
see Help News202.
File 233:Internet & Personal Comp. Abs. 1981-2001/Apr
(c) 2001 Info. Today Inc.

Recorders, VTR); R102 (APPLIED ELECTRONICS -- Video Disk
Recorders, VDR); R107 (INFORMATION PROCESSING -- OCR & OMR
Optical Readers); R131 (INFORMATION PROCESSING --
Microcomputers & Microprocessors)

JOURNAL: Section: P, Section No. 1596, Vol. 17, No. 454, Pg. 65,
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? ds

Set	Items	Description
S1	1	PN="JP 5101118"

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PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

?

TIMEOUT: Logged Off 04/18/01 14:19:33 by System

Connecting via Winsock to Dialog

Logging in to Dialog

Trying 3106...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

ENTER PASSWORD:

Welcome to DIALOG

Dialog level 00.12.12D

Reconnected in file 347 18apr01 14:25:21

& * * F234 unavailable * * *

File 347:JAPIO Oct 1976-2000/Dec(UPDATED 010412)

(c) 2001 JPO & JAPIO

*File 347: JAPIO data problems with year 2000 records are now fixed.

Alerts have been run. See HELP NEWS 347 for details.

Set	Items	Description
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? set hi ;set hi

HILIGHT set on as ''

HILIGHT set on as ''

? b eecomp compsci software

File 238:Abs. in New Tech & Eng. 1981-2001/Mar
 (c) 2001 Reed Elsevier (UK) Ltd.
 File 275:Gale Group Computer DB(TM) 1983-2001/Apr
 (c) 2001 The Gale Group
 File 674:Computer News Fulltext 1989-2001/Apr W2
 (c) 2001 IDG Communications
 File 696:DIALOG Telecom. Newsletters 1995-2001/Apr 18
 (c) 2001 The Dialog Corp.
 File 256:SoftBase:Reviews,Companies&Prods. 85-2001/Mar
 (c)2001 Info.Sources Inc
 File 278:Microcomputer Software Guide 2001/Mar
 (c) 2001 Reed Elsevier Inc.

Set Items Description

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? e co=hagiwara sys-com

Ref	Items	Index-term
E1	5	*CO=HAGIWARA SYS-COM
E2	66	CO=HAGLER
E3	5	CO=HAGLER BAILLY CONSULTING
E4	10	CO=HAGLER BAILLY CONSULTING INC.
E5	5	CO=HAGLER BAILLY INC
E6	1	CO=HAGLER BAILLY INC.
E7	44	CO=HAGLER BAILLY SERVICES, INC.
E8	3	CO=HAGLER BAILLY, INC.
E9	3	CO=HAGO CORP
E10	1	CO=HAGSTROMER
E11	1	CO=HAGUE PROGRAMME ADVISORY COUNCIL
E12	1	CO=HAHABONK.COM

Enter P or PAGE for more

? s el

SYSTEM:OS - DIALOG OneSearch

File 16:Gale Group PROMT(R) 1990-2001/Apr 25

(c) 2001 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989

(c) 1999 The Gale Group

File 20:World Reporter 1997-2001/Apr 26

(c) 2001 The Dialog Corporation

File 148:Gale Group Trade & Industry DB 1976-2001/Apr 25

(c)2001 The Gale Group

File 481:DELPHEE EUR BUS 80-1999/DEC W3

(c) 1999 ACFCI & CHAMBRE COMM IND PARIS

*File 481: ***Due to technical problems, this file
is temporarily not updating.

File 629:EIU:BUS. Newsletters 2001/Apr W4

(c) 2001 Economist Intelligence Unit

	Set	Items	Description
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	S1	5237	TIVO
? s configur???			
	S2	160291	CONFIGUR???
? s s1 and s2			
		5237	S1
		160291	S2
	S3	57	S1 AND S2
? t 3/6,k/1-57			

3/6,K/1 (Item 1 from file: 16)

PRODUCT
SEARCH

APR 25 2001

1/9/1 (Item 1 from file: 498)
DIALOG(R)File 498:Detroit Free Press
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10234027

NIFTY WAYS YOU CAN SOUP UP YOUR MACHINE

Detroit Free Press (FP) - Sunday, August 22, 1999

By: HEATHER NEWMAN FREE PRESS STAFF WRITER

Edition: METRO FINAL Section: COM; SUNDAY VOICES Page: 3E

Word Count: 642

MEMO:
PC@HOME

TEXT:

IT'S ODDS and ends day today: Read on and learn about an effective upgrade for your computer, the best utility for new computer users and some nifty Palm Pilot accessories.

Installing RAM. Adding random access memory is the fastest, cheapest, most powerful boost you can give your PC or Mac. For details on what type you need and where to buy it, see the articles elsewhere on this page. But to install it, follow these steps:

1. Buy the RAM your computer uses. You'll find details in your owner's manual.
2. Open the case.
3. Locate the existing RAM inside by comparing it to the memory you bought. Don't worry; nothing else inside your machine will look like it.
4. Plug the new RAM into a spare slot next to the old memory. Depending on the type of RAM you have, you may have to stick it in, then angle it to snap it into place, or you may just have to push firmly until brackets snap around the edges. Your manual will have directions.
5. Close the cover and restart the machine. You're done!

GoBack. If I had to pick the single most useful utility for new computer owners, this would be it. GoBack by WildFile (\$70 at Best Buy or by calling 888-945-3345, 10 a.m.-6 p.m. weekdays) keeps a running picture of what you're doing on your computer. Mess something up? Just pick a time when everything was all right and revert your hard drive back to that state. Or revert just one file. Or revert your whole hard drive, then go back and retrieve a later version of a single file.

It's as easy as it sounds, and it works like a charm. You will hear your hard drive working after you've made major changes, and it does require a fair amount of disk space. But it's definitely worth it, especially if it saves you some frustrating hold times for technical support.

Dress up your desk. Other than the iMac I reviewed last fall, the gadget to get the most stares in my office was the **Lukis** JPEG Image Viewer (\$199, 800-358-7267, 11:30 a.m.-8:30 p.m.). It's a stand-alone **picture frame** that displays a rotating set of JPEG images that you load, either by using a digital camera that has compact flash memory cards -- which you can stuff right into the JPEG Viewer -- or by using one of **Lukis** 'compact-flash-to-PC connection devices.

The picture quality isn't amazing; after all, they're just low-resolution images on the equivalent of a small laptop screen. And the price is steep. But the wow factor is high, and if you like multiple pictures on your desk, it'll save you space.

Palm Pilot stuff. Regular readers will know that I'm a big fan of the Palm Pilot line, especially the Palm 3. Owners of those models who have had to juggle their Pilots and a pager finally have a solution.

PageMart Wireless, maker of the pager card and memory upgrade for earlier

Pilot models, has introduced an alphanumeric pager card for the Palm 3 that turns the Pilot into a display pager. It doesn't increase your memory, so Palm 3x owners will want to skip it because it would reduce the amount they have available.

The card is listed at \$129, and nationwide paging service with voice mail starts at \$19.95 a month. Call 800-318-2010 anytime.

All Pilot users will love "Palmpilot, the Ultimate Guide/Second Edition" (\$29.95 including CD-ROM), the comprehensive tome by David Pogue and the good guys at O'Reilly Publishers. This is the second edition of the best-selling computer book, including Pogue's helpful advice on all Pilots up to the Palm VII.

HEATHER NEWMAN can be reached at 313-223-3336 or newman@freepress.com
{MARGINALIA} !--#include virtual="/include/tech/nav/pc_margin.fhtml

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DESCRIPTORS: COMPUTER; TIP; UPGRADE; COLUMN
?